

**Abstract:**

A computer system and a method is disclosed for determining a travel scheme which minimizes travel costs for an organization, where the organization expects to purchase travel trips for a plurality of travelers for a plurality of travel links. From the travel information, the system constructs an objective function representing a travel cost to the organization to purchase travel trips for the plurality of travelers for the plurality of predetermined links, and a set of constraints comprising restrictions relating to the objective function. The constraints are applied to the objective function to determine a solution of the objective function that satisfies the constraints and that minimizes the travel costs of the organization, and a data output device then generates a report representative of the solution.